

$$\beta = (2\pi/\lambda) \times \text{Modal Index}$$

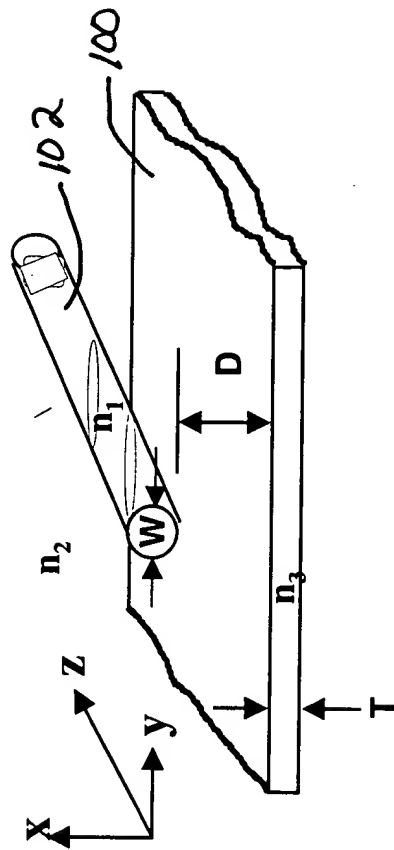
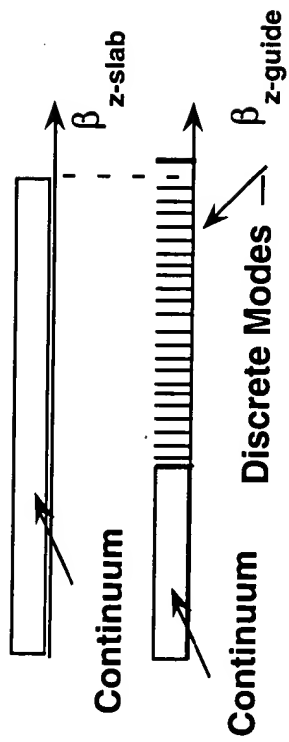


Fig. 1

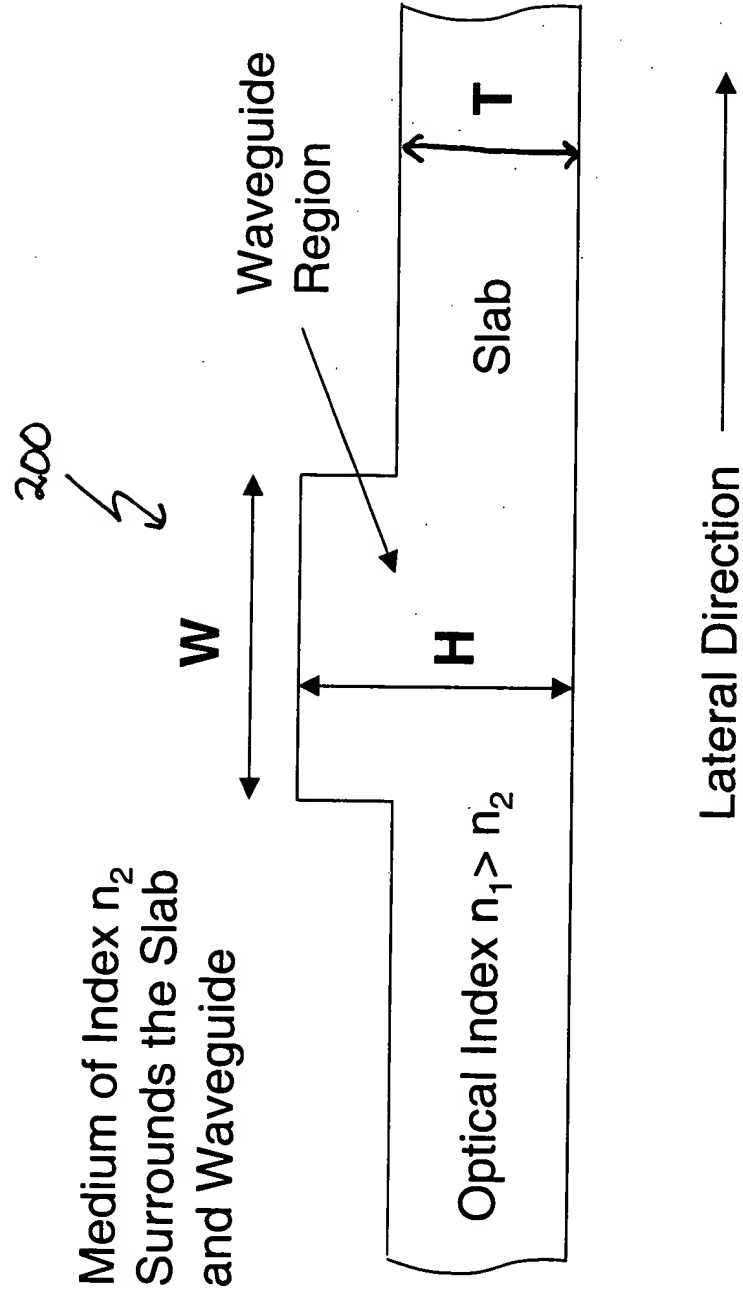


Fig. 2

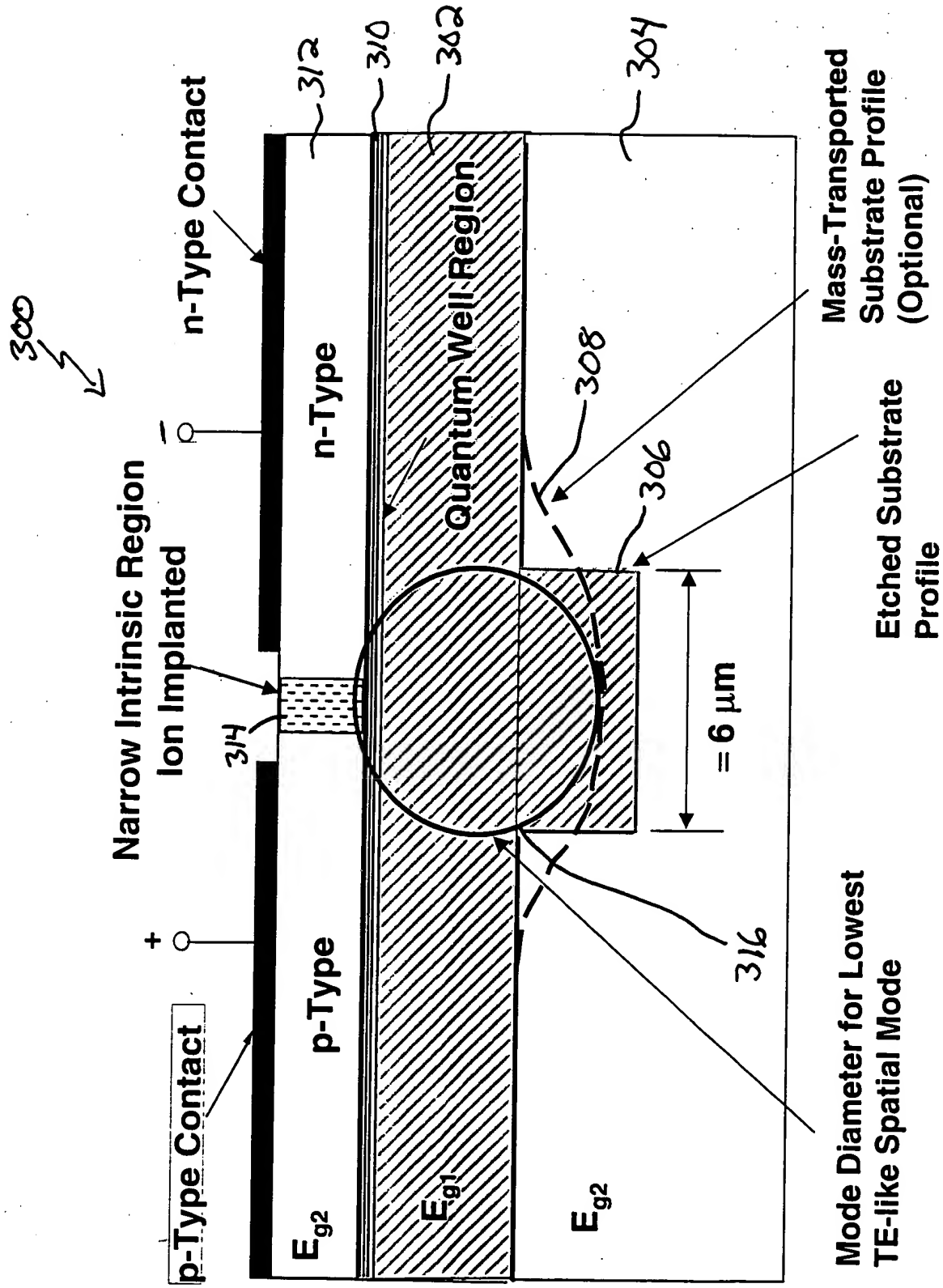


Fig. 3

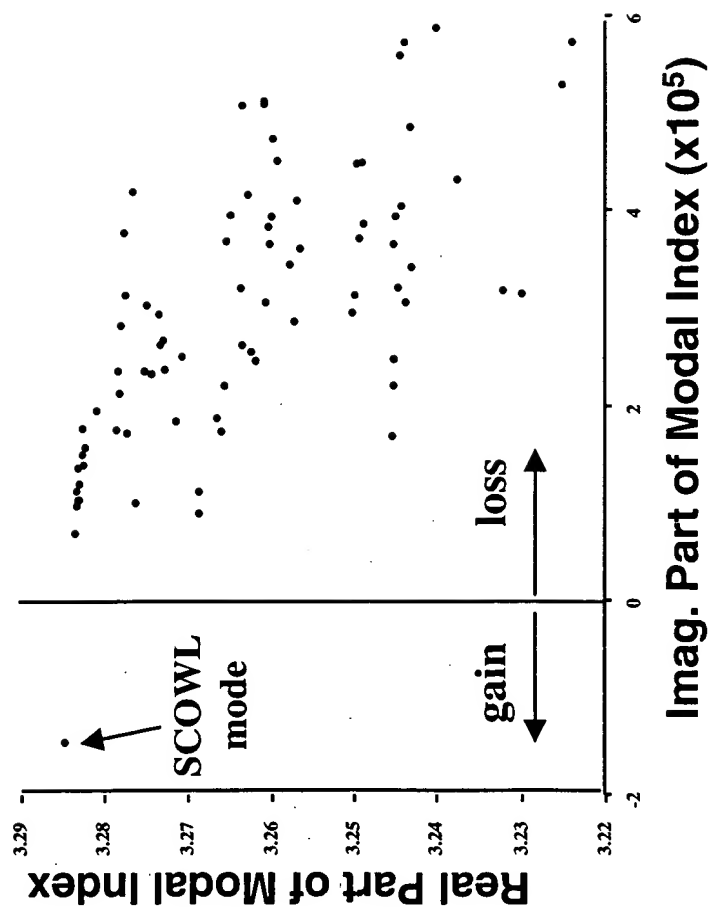
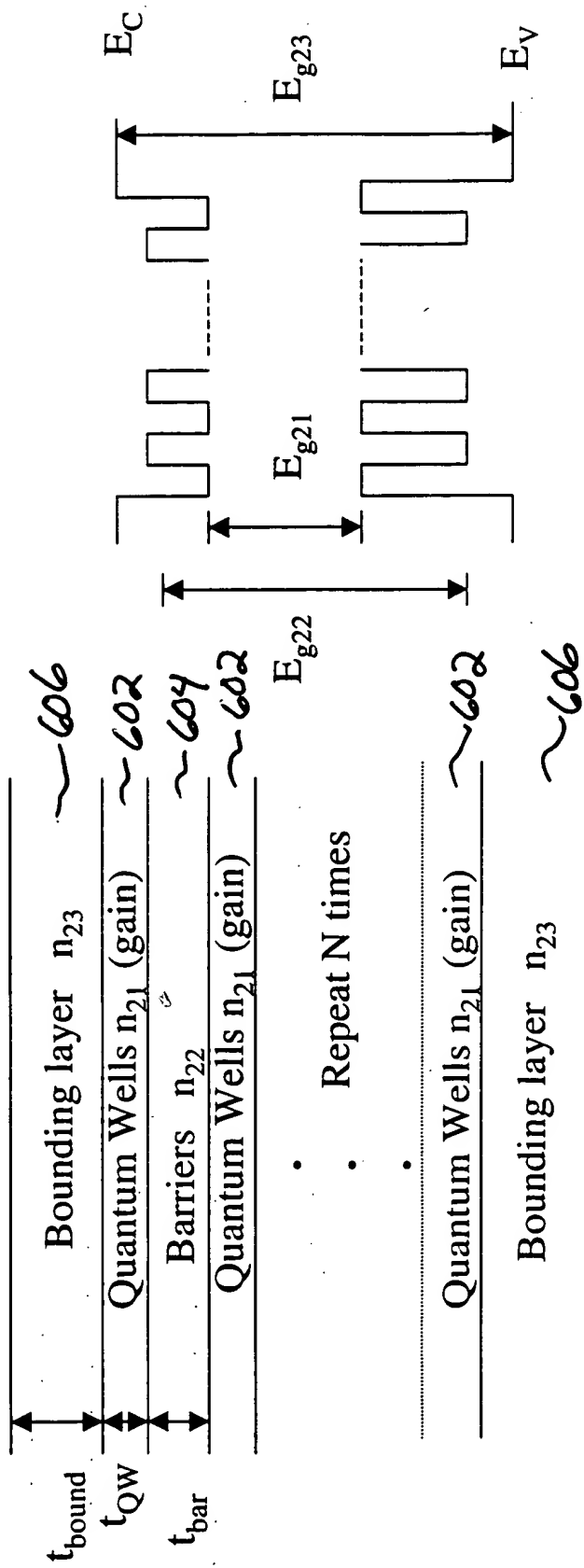


Fig. 5

600
↓



$$n_{21} > n_{22} \geq n_{23} \geq n_1 > n_2$$

$$E_{g21} < E_{g22} \leq E_{g23} \leq E_{g1}$$

MQW Region Band Diagram

Fig. 6

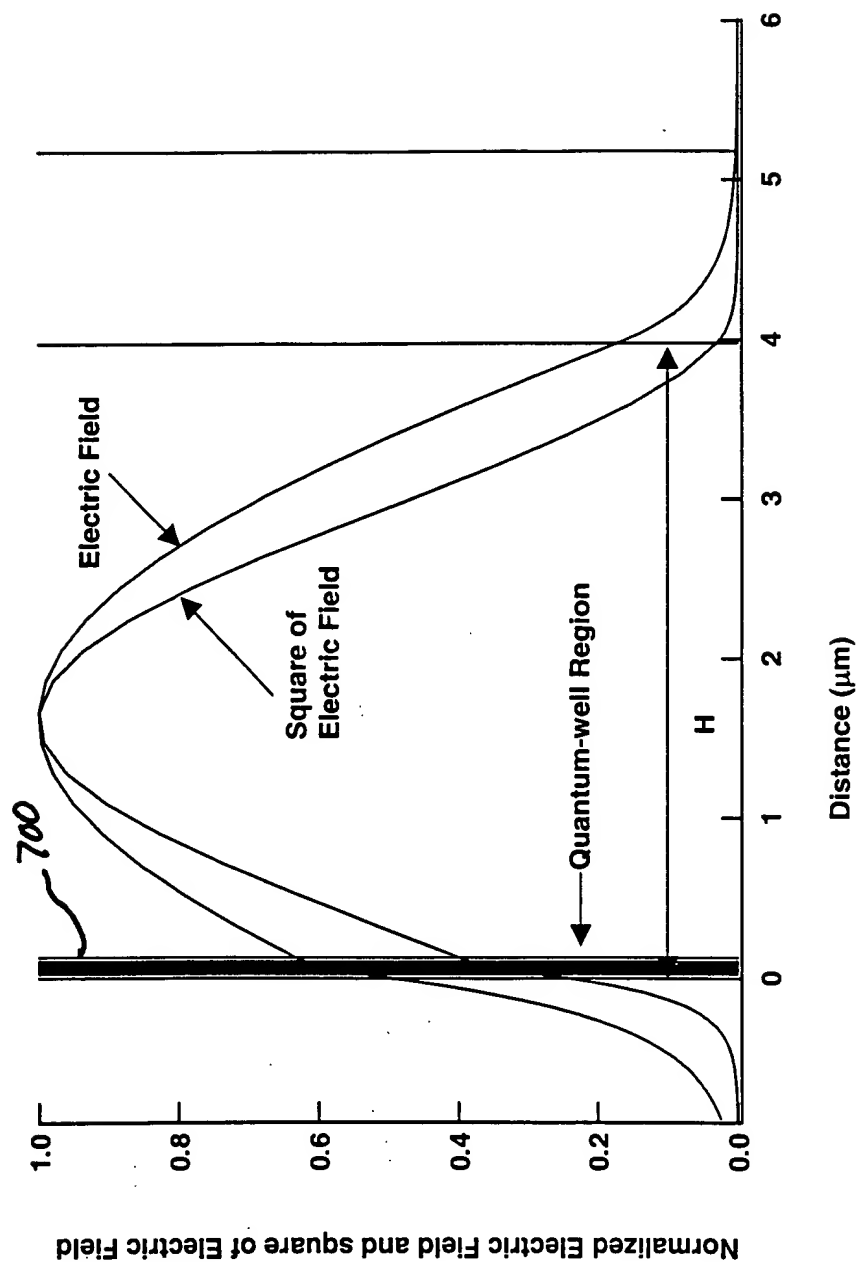


Fig. 7

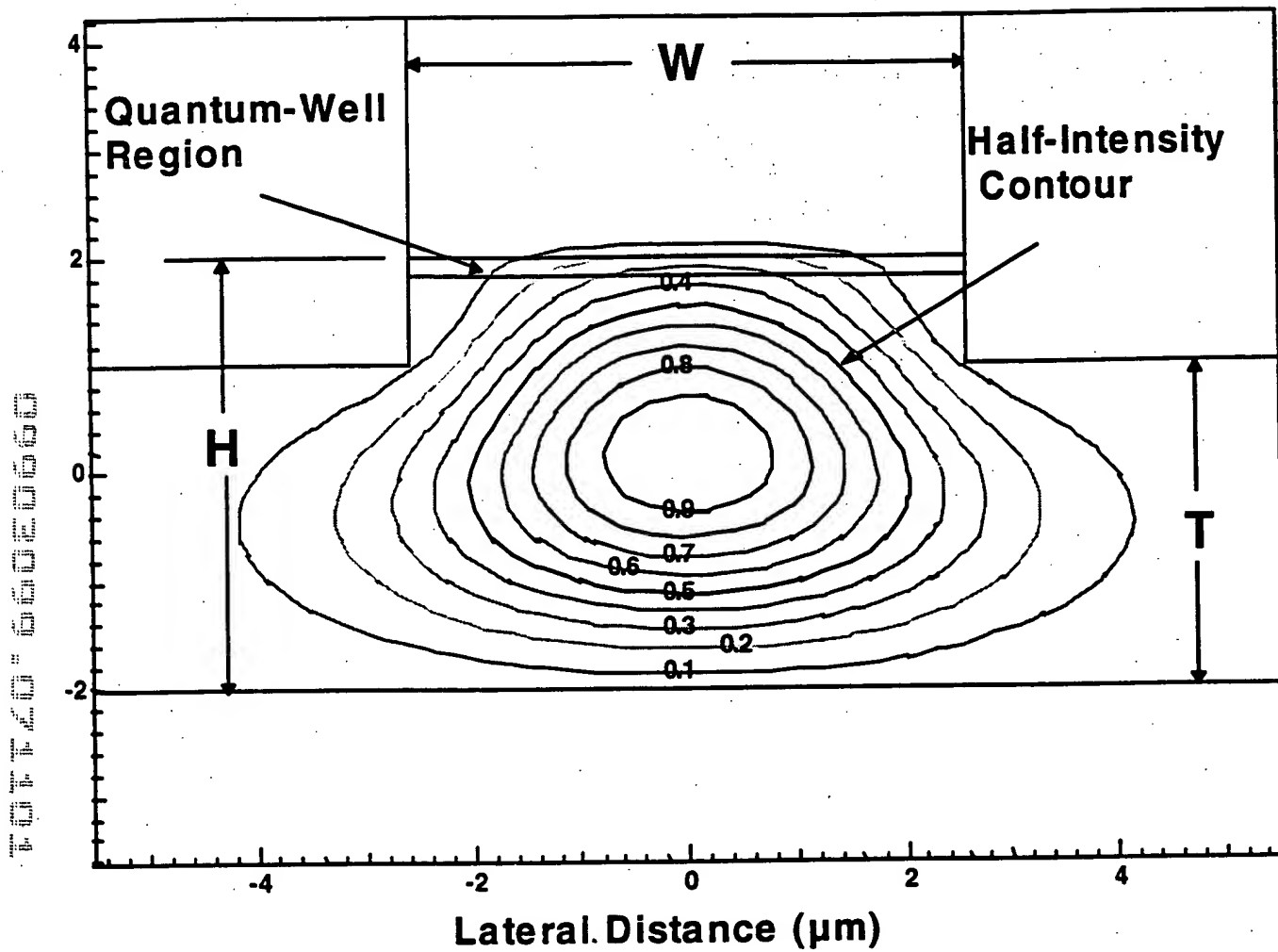


Fig. 8

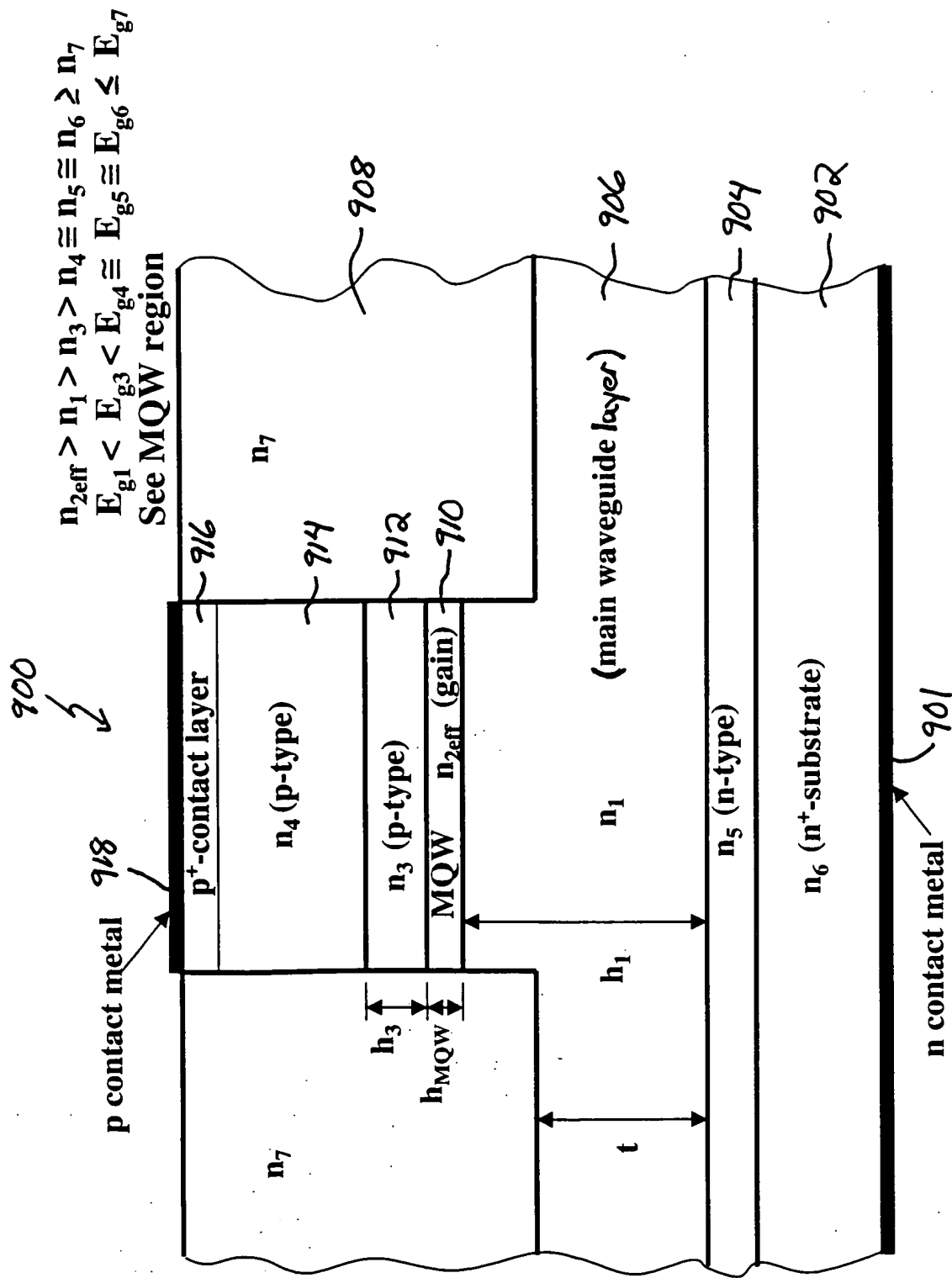


Fig. 9

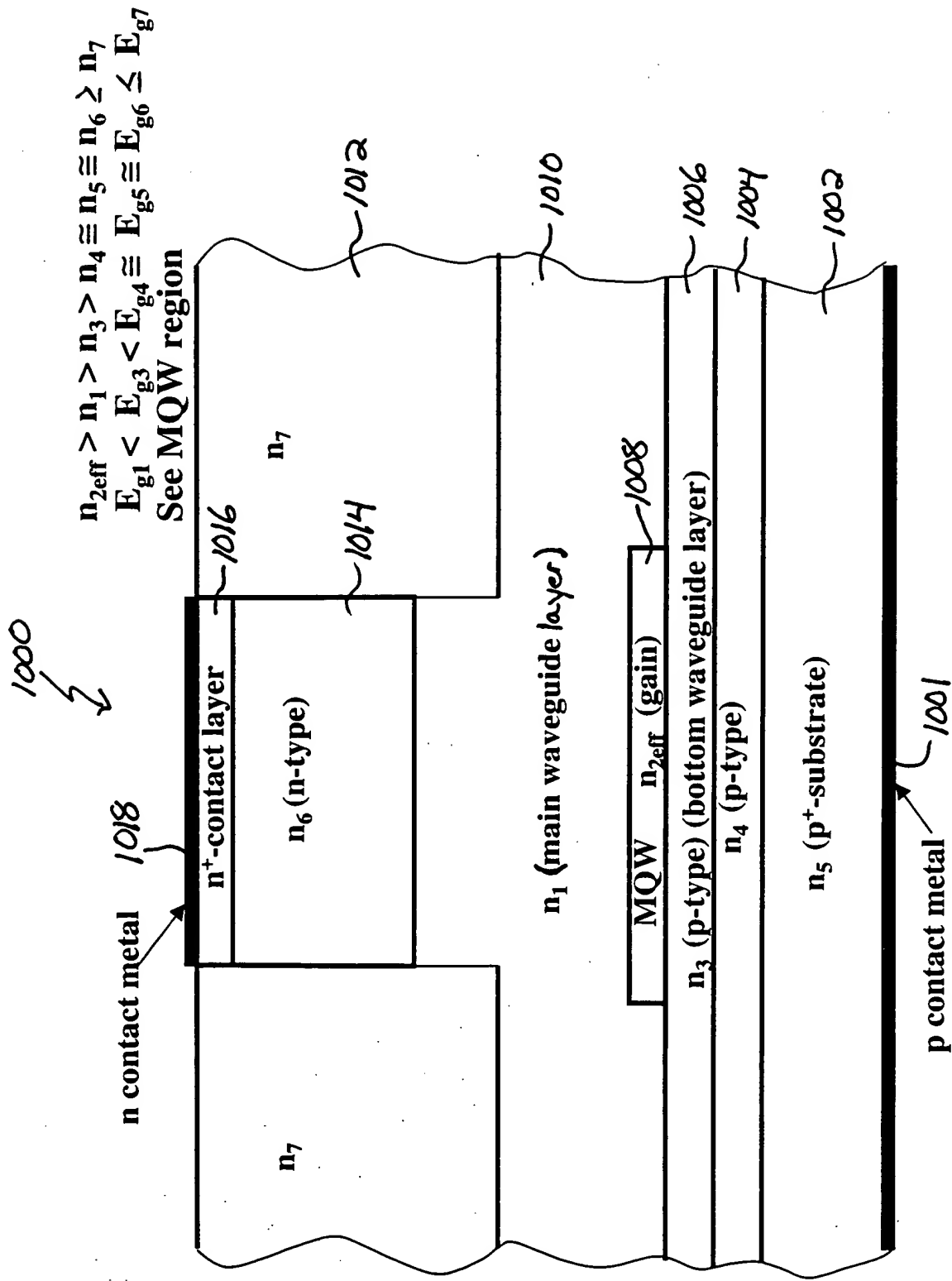


Fig. 10

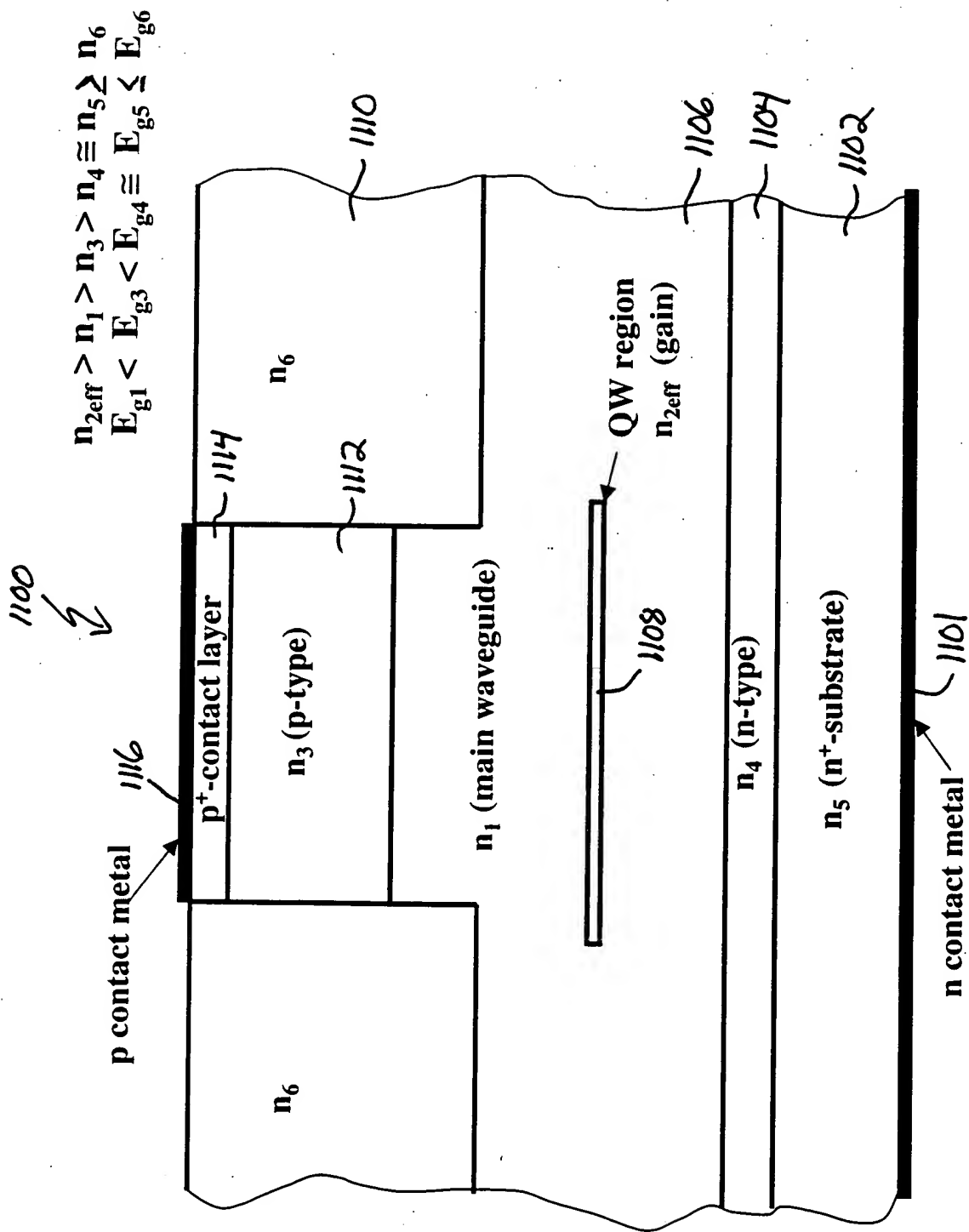
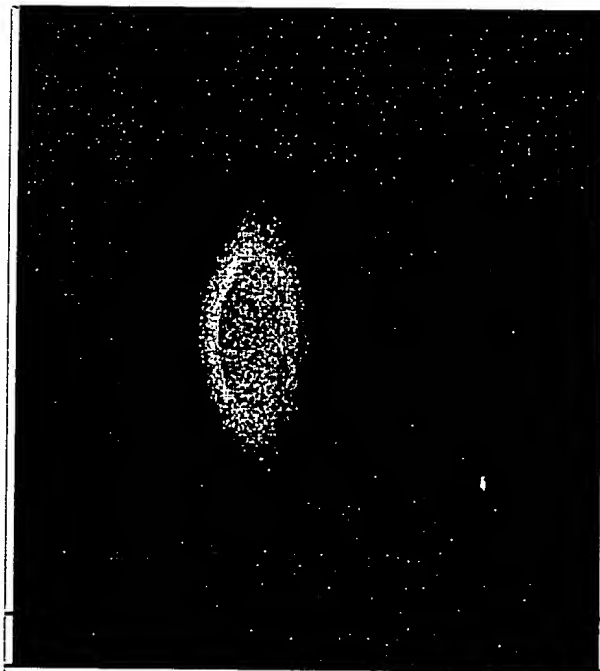


Fig. 11

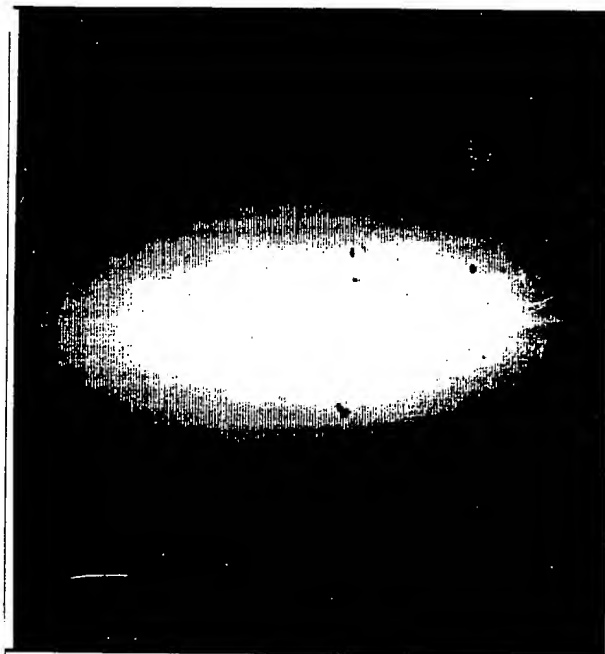
**Near-Field
Mirror Illumination Pattern**



4 μm

Fig. 12A

Far-Field Pattern



~8°

Fig. 12B

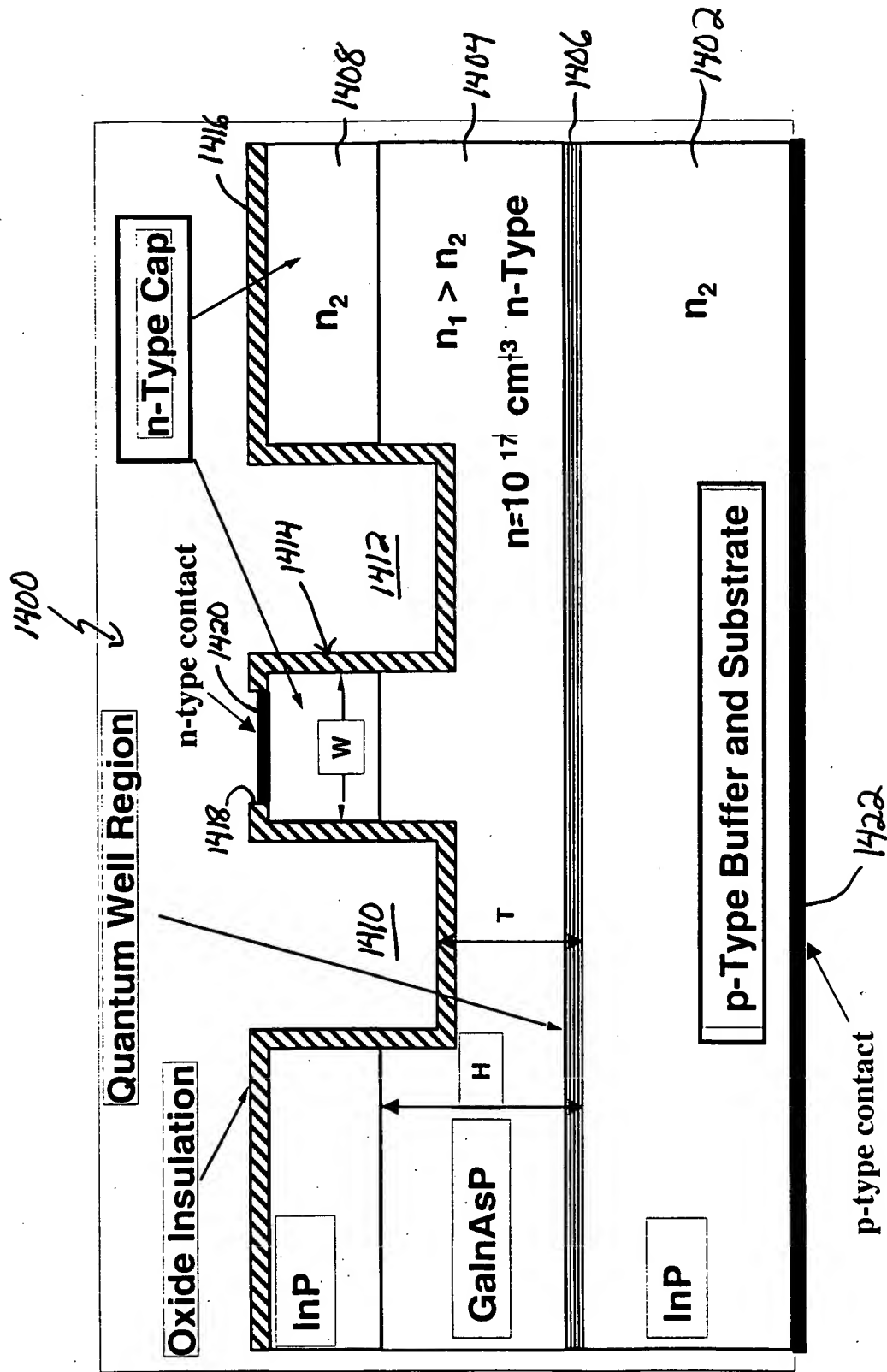


Fig. 14

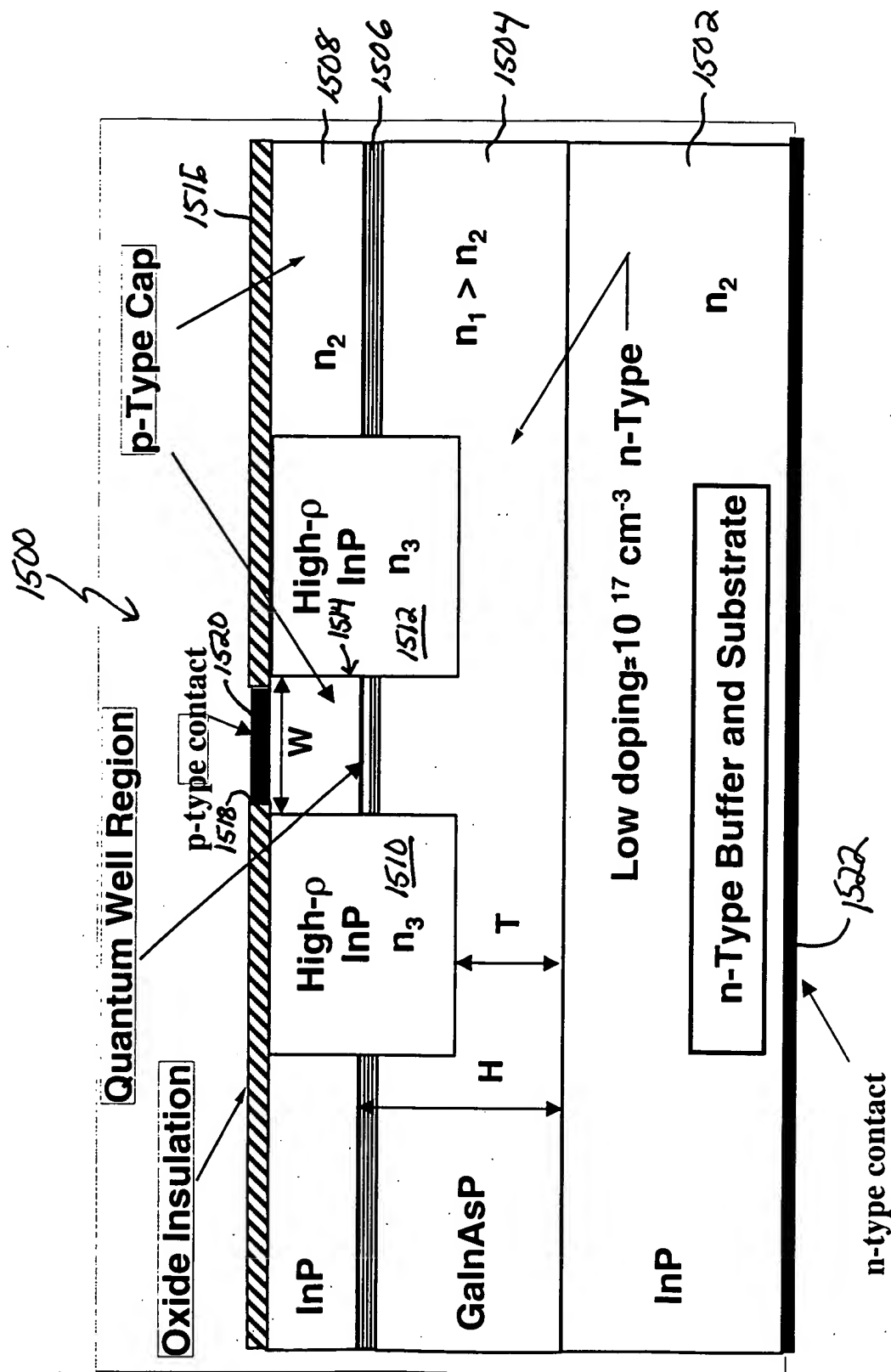


Fig. 15

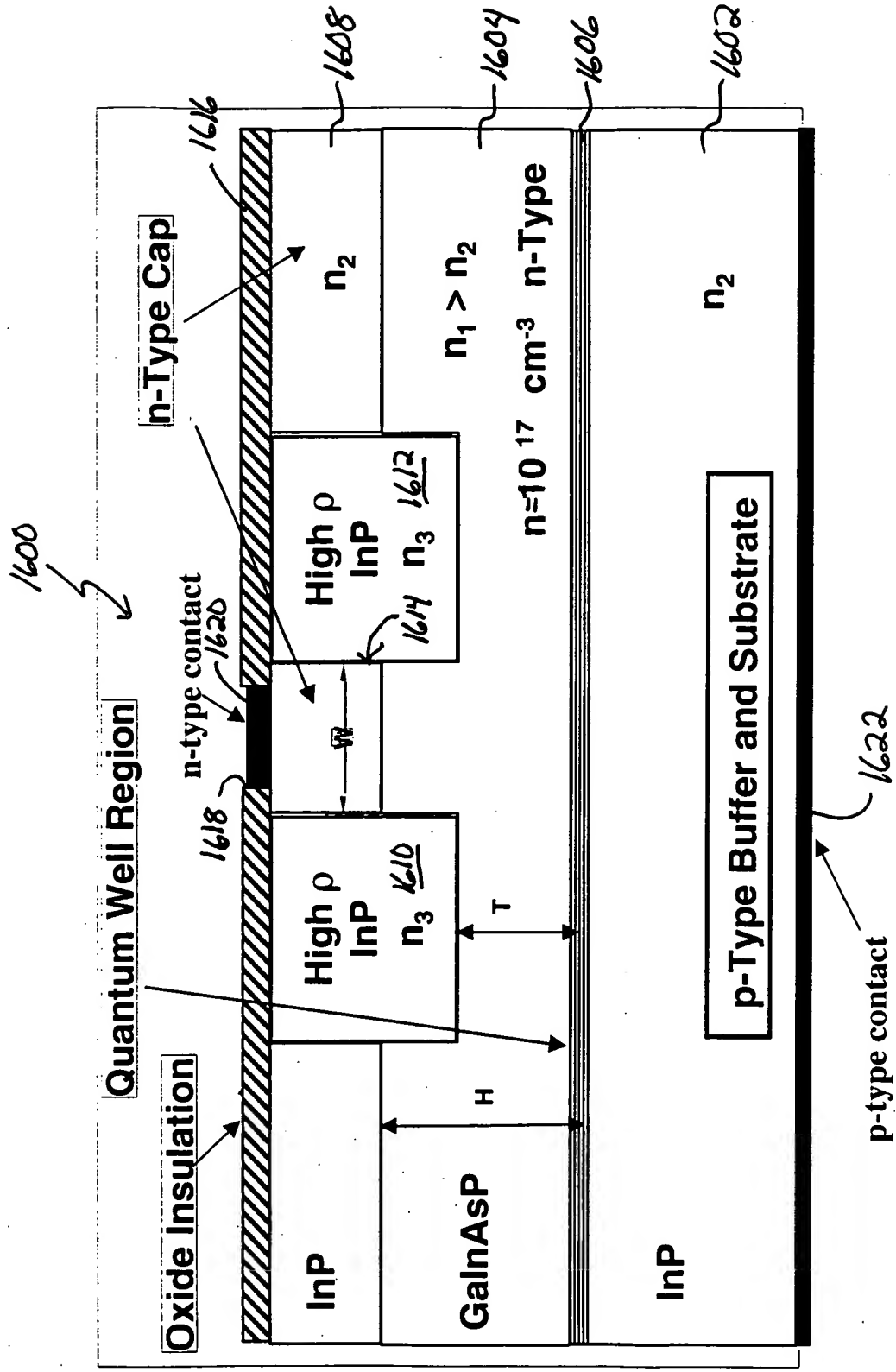


Fig. 16

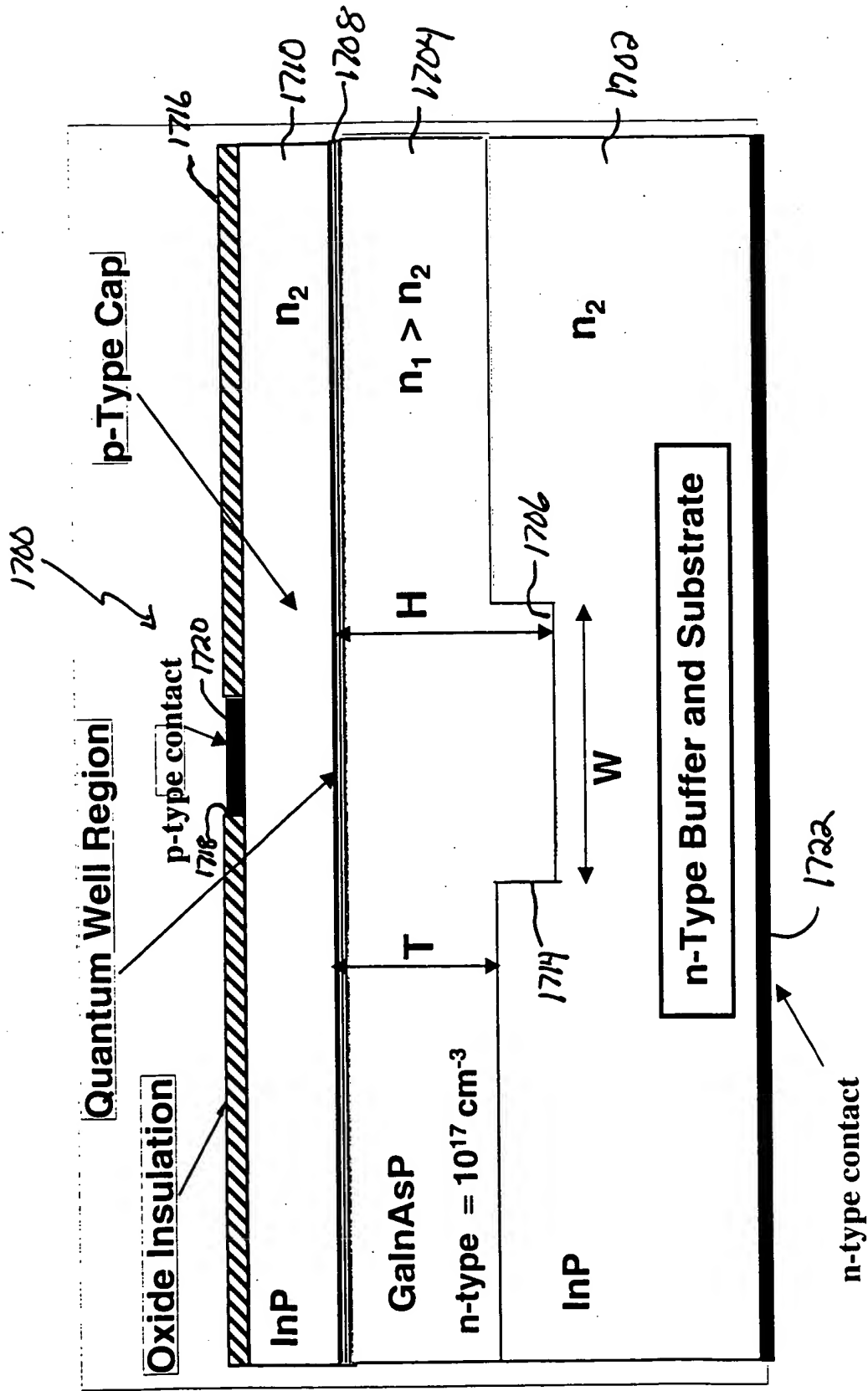


Fig. 17

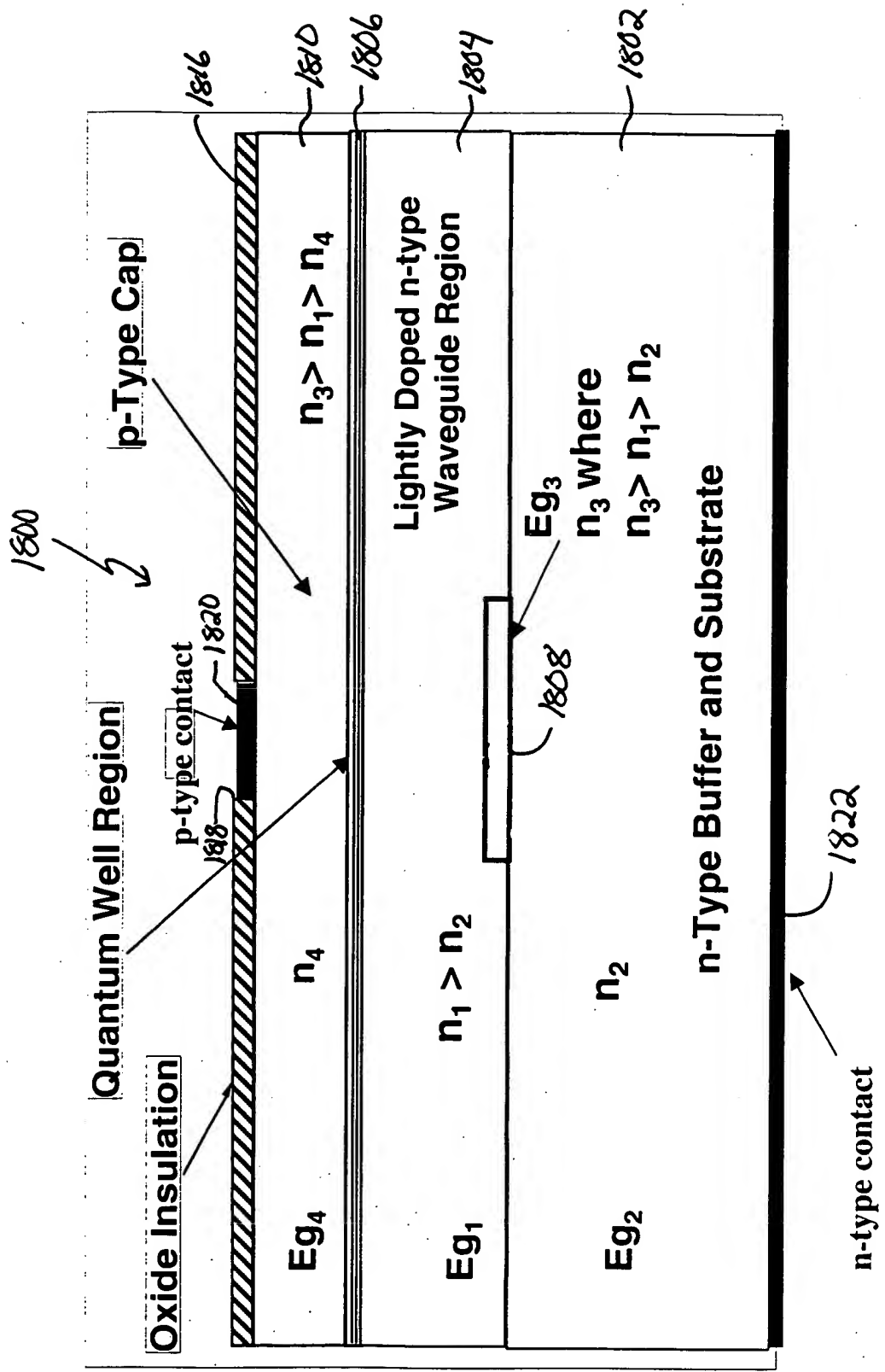


Fig. 18

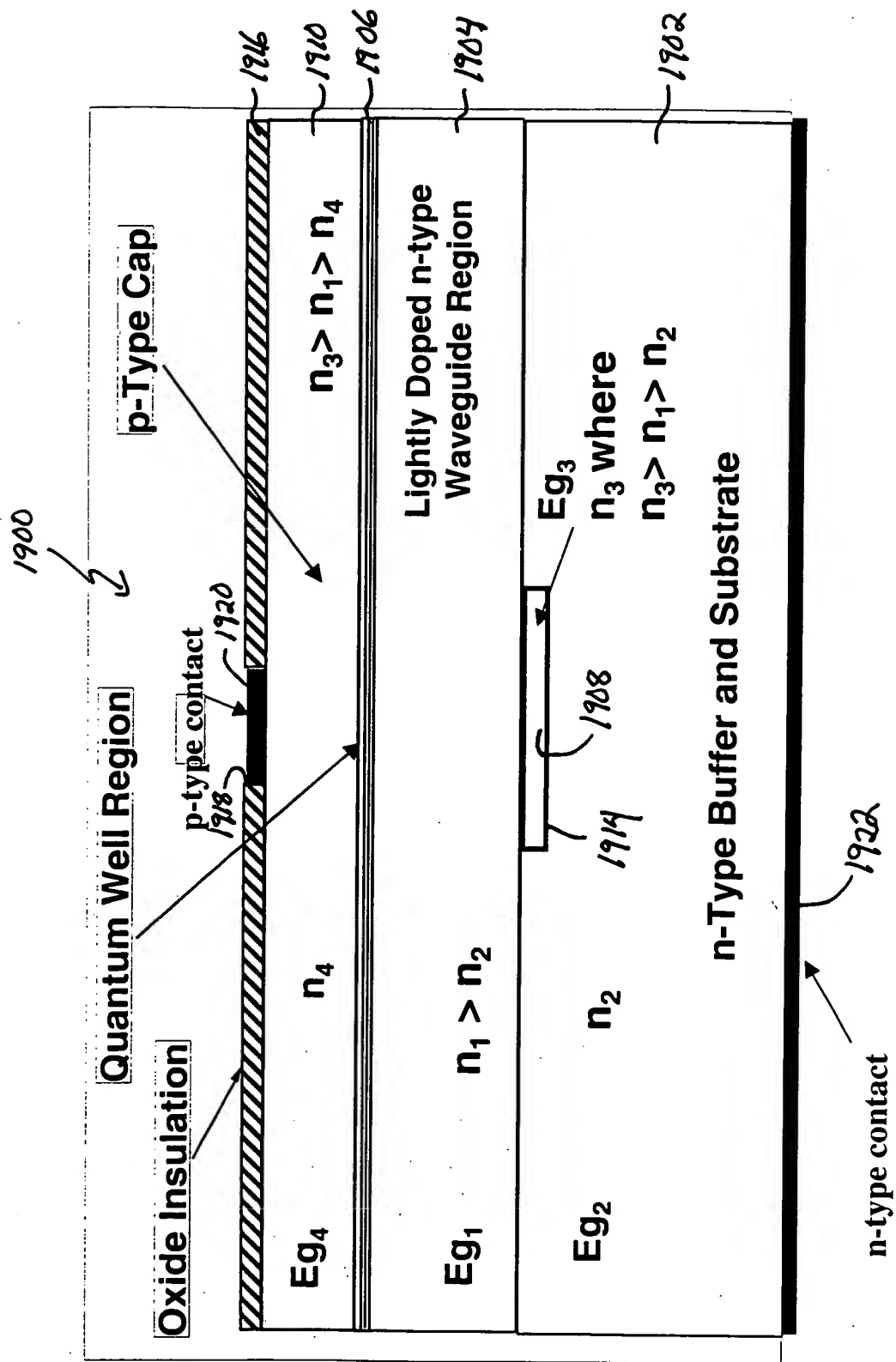


Fig. 19

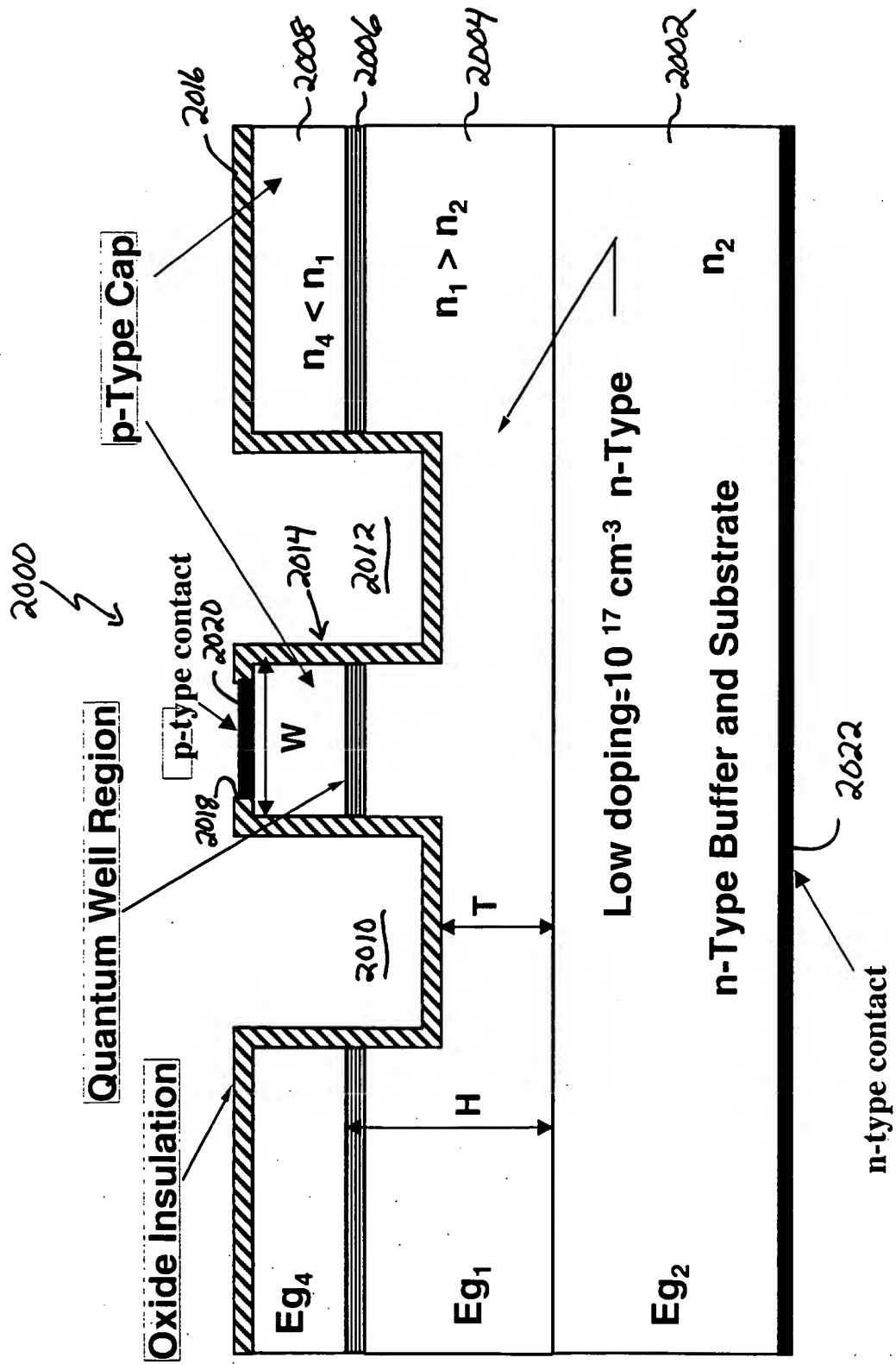


Fig. 20

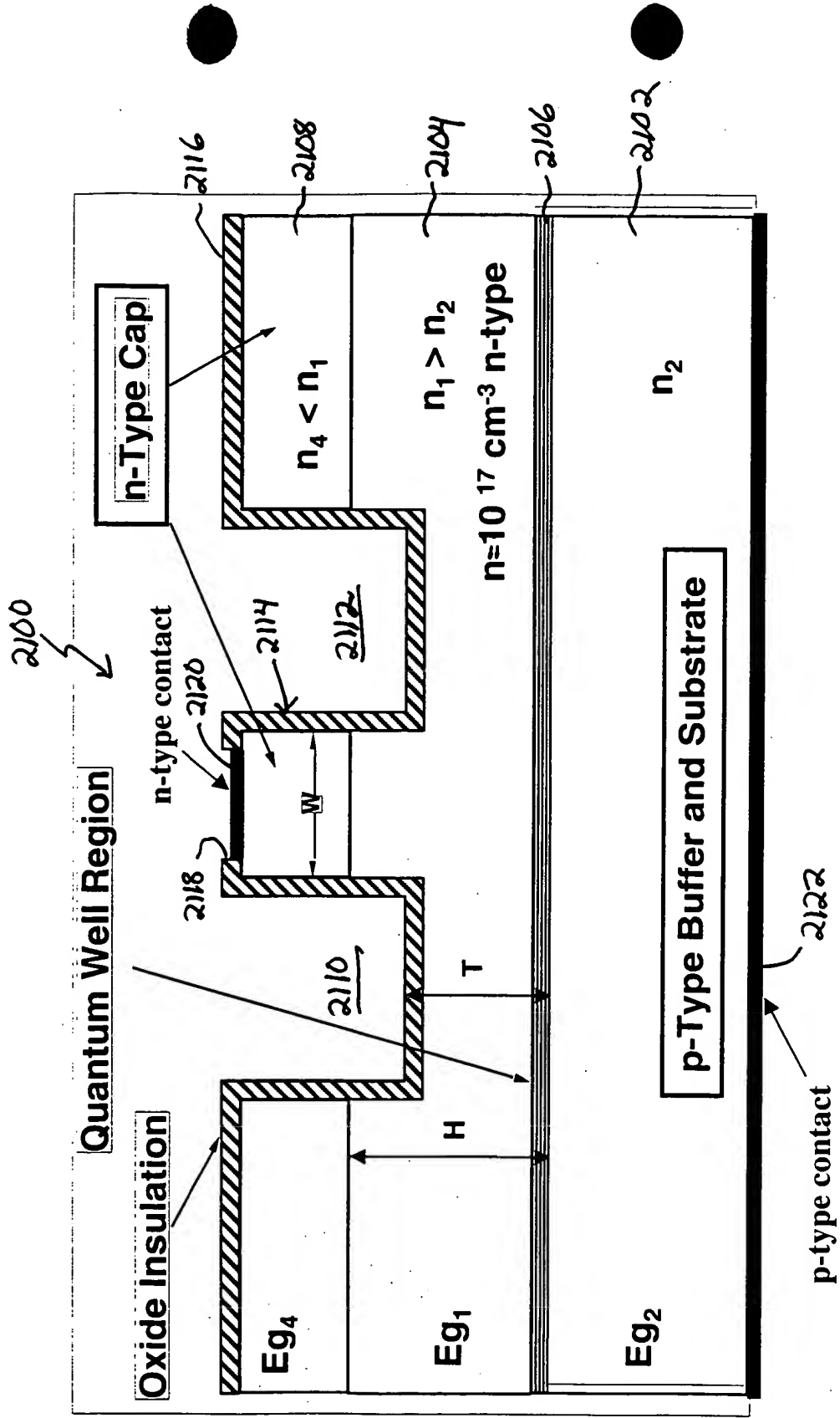


Fig. 21

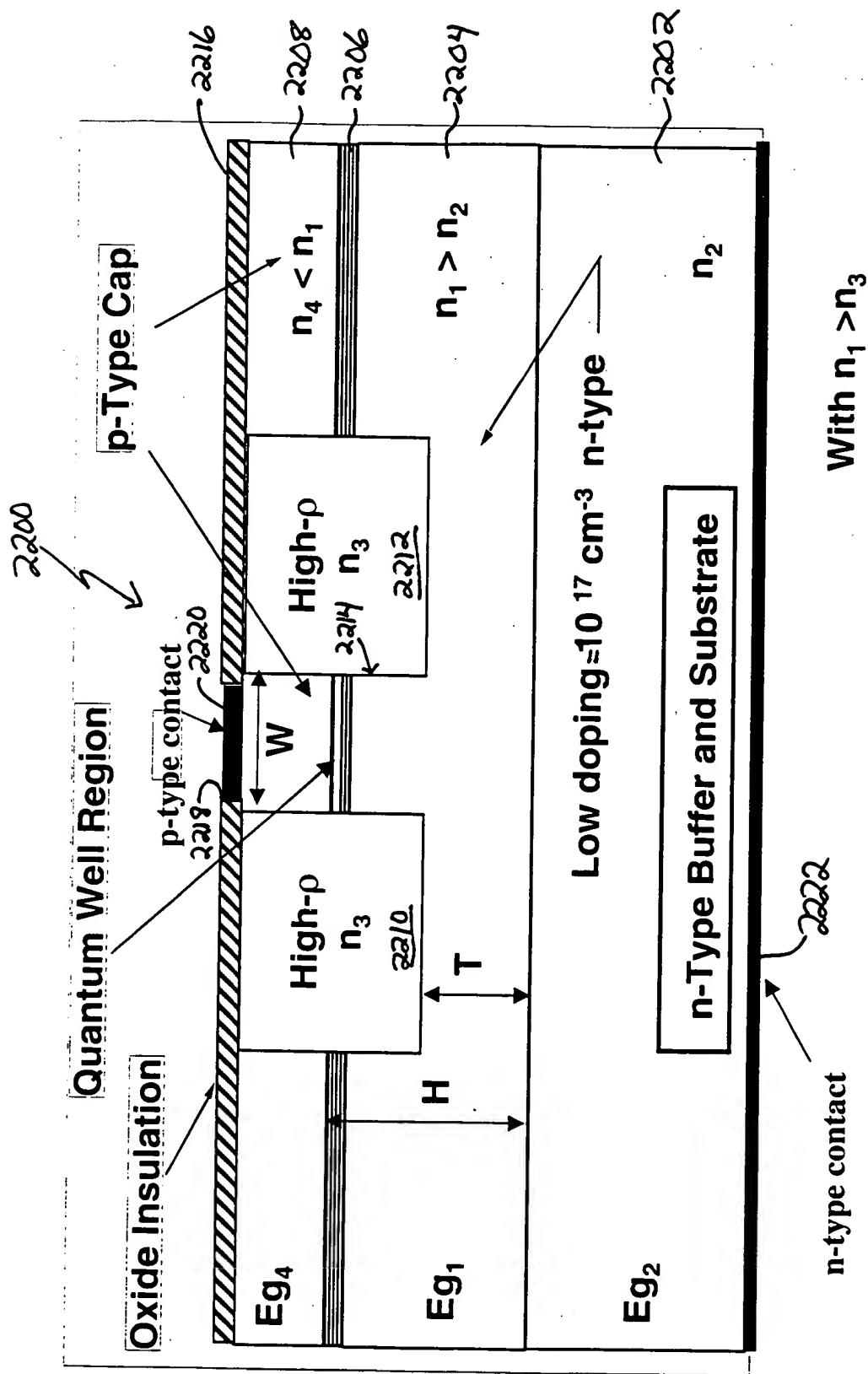


Fig. 22

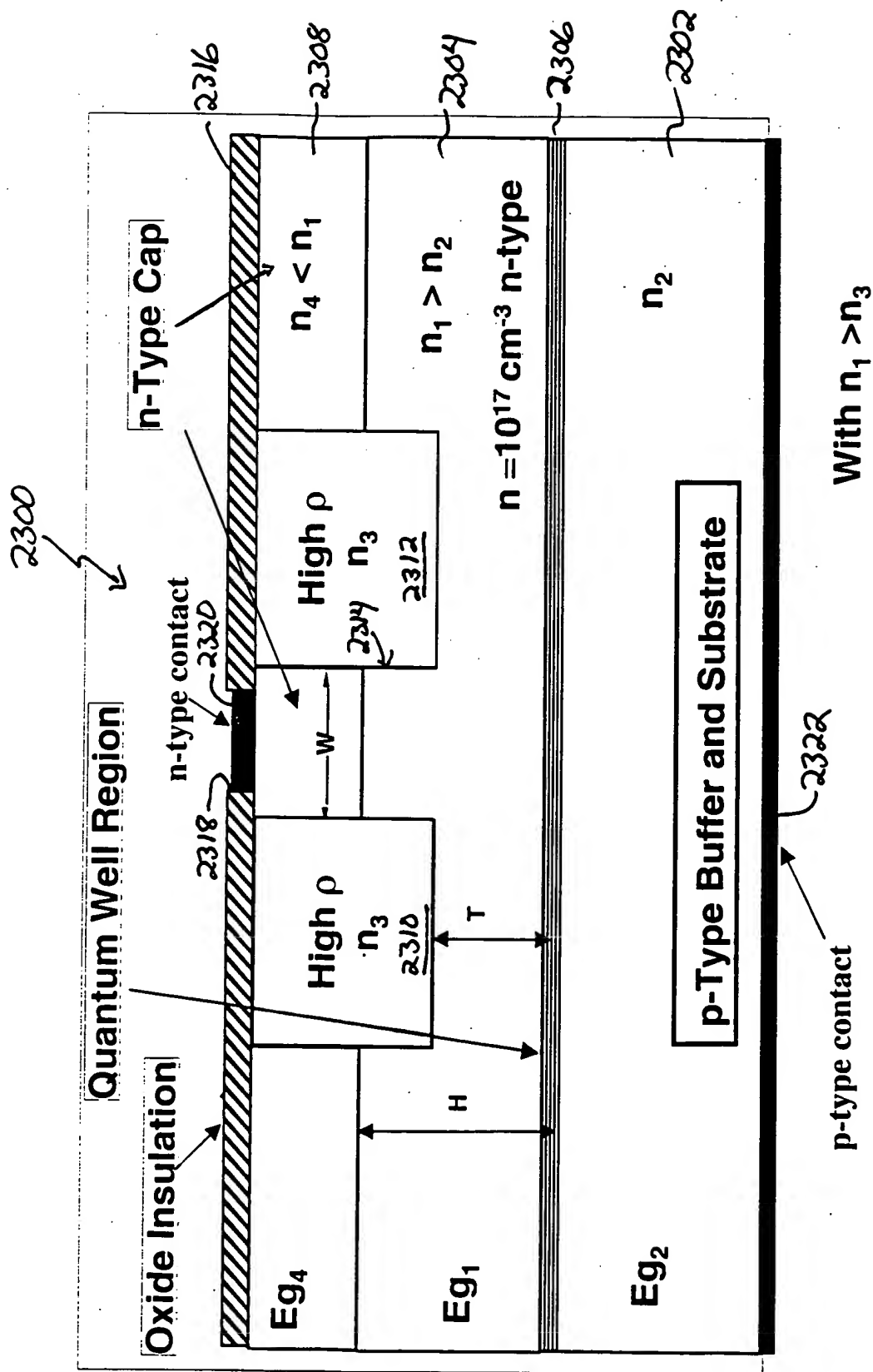


Fig. 23

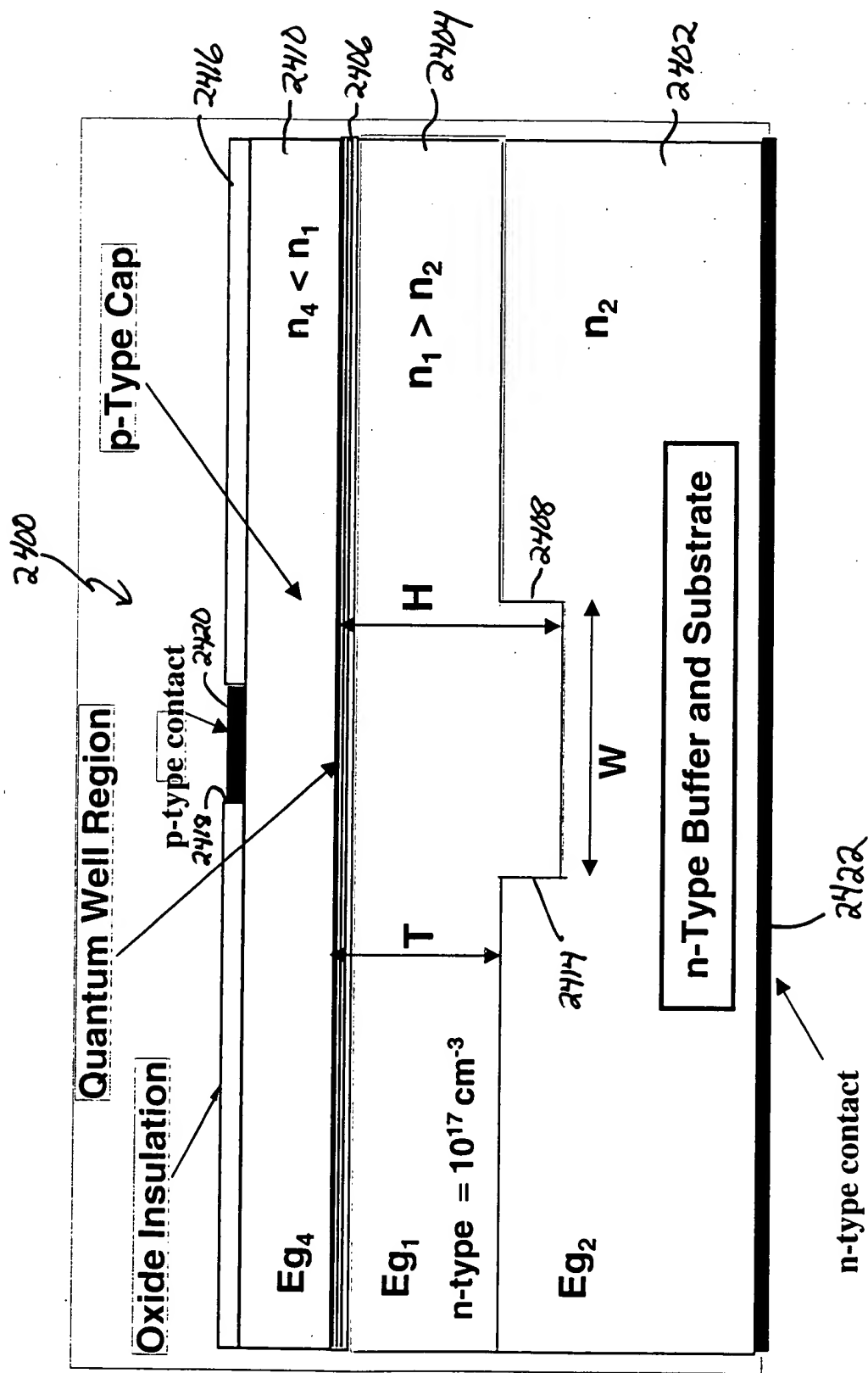


Fig. 24

2500

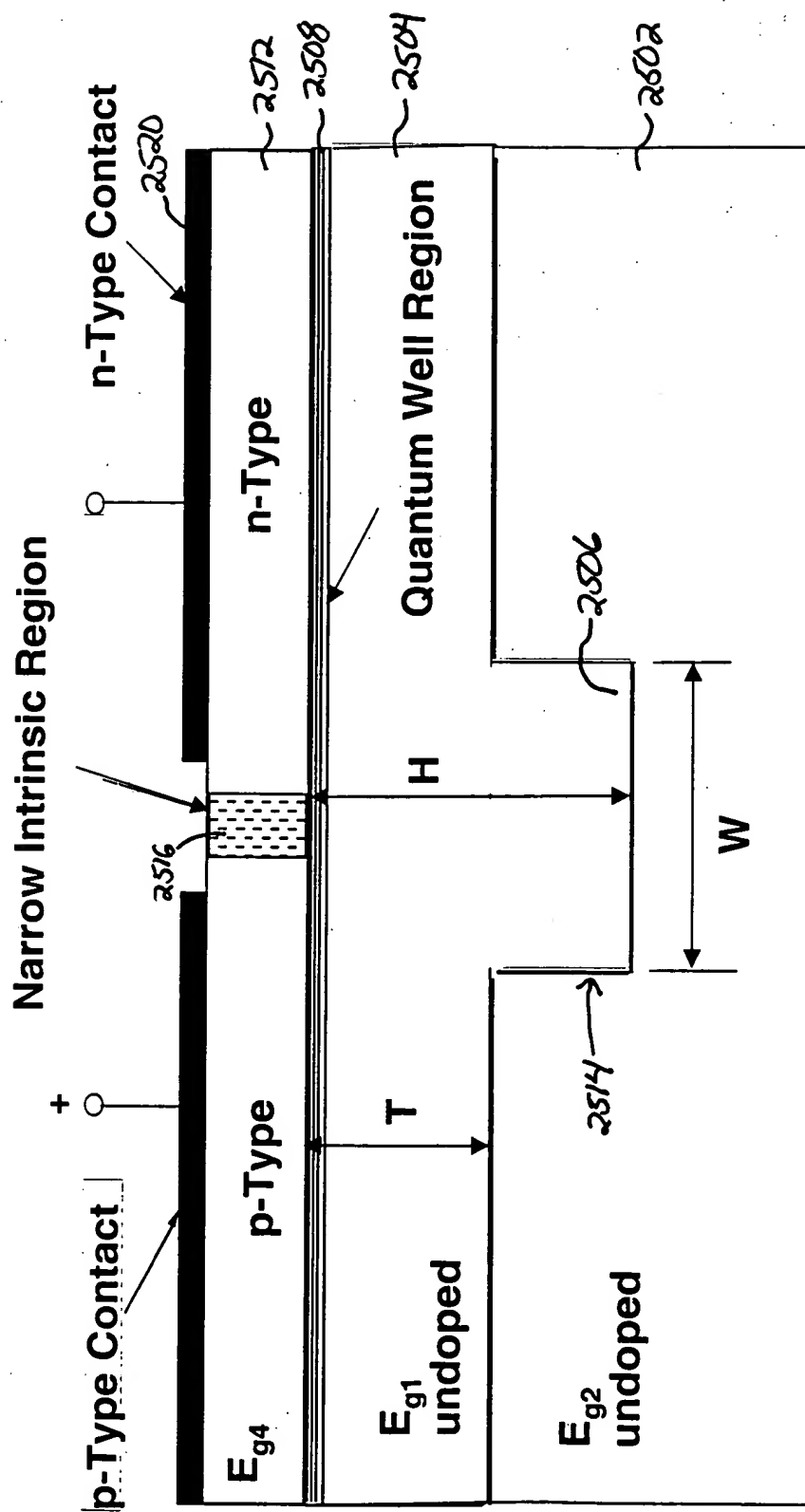


Fig. 25